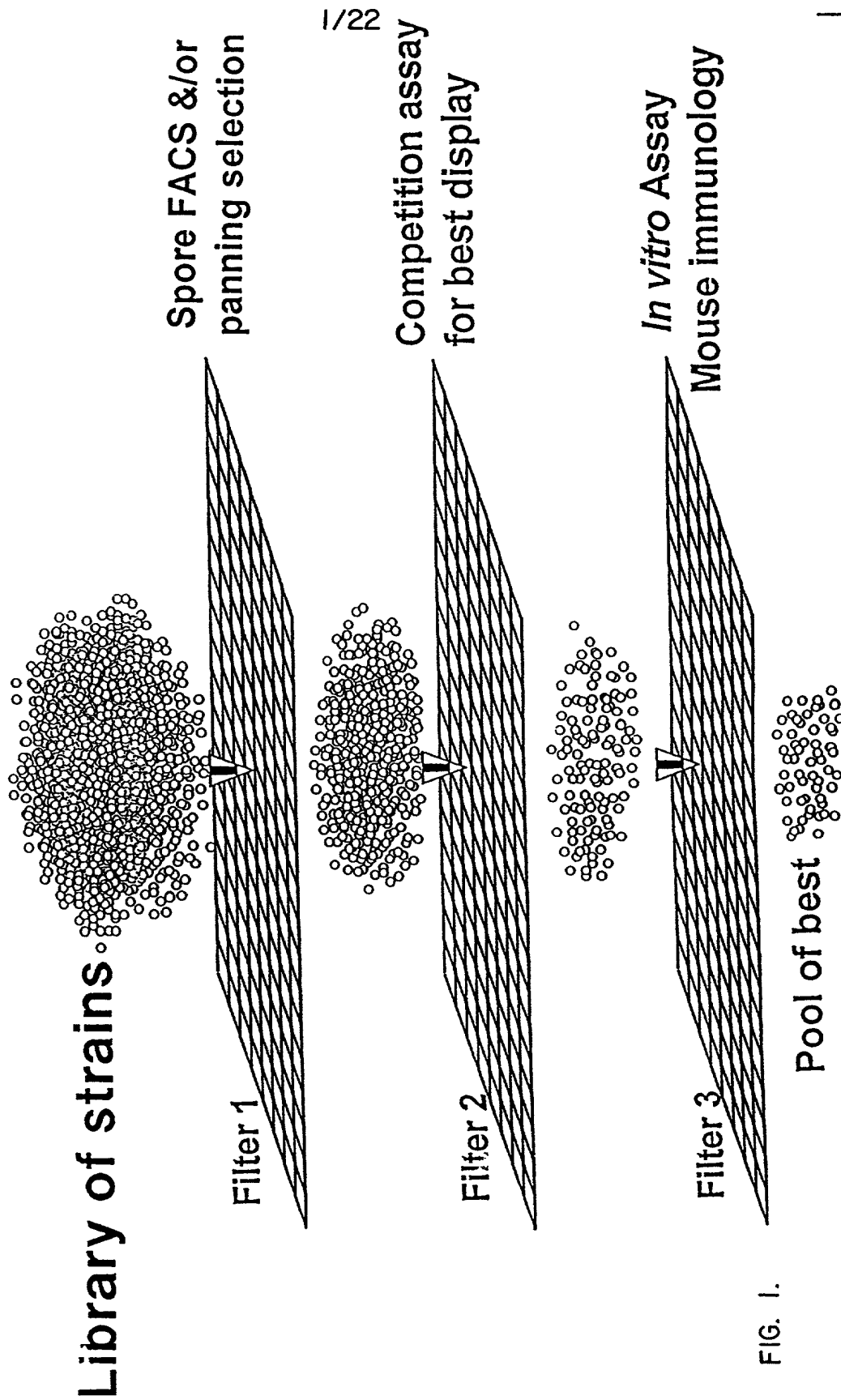


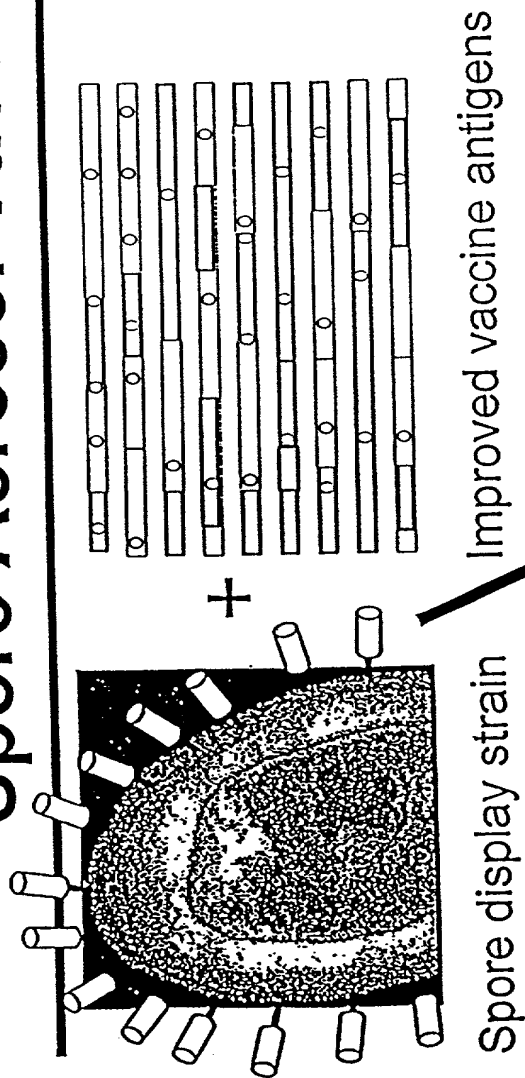
Multi-tiered Screening For Spore Display



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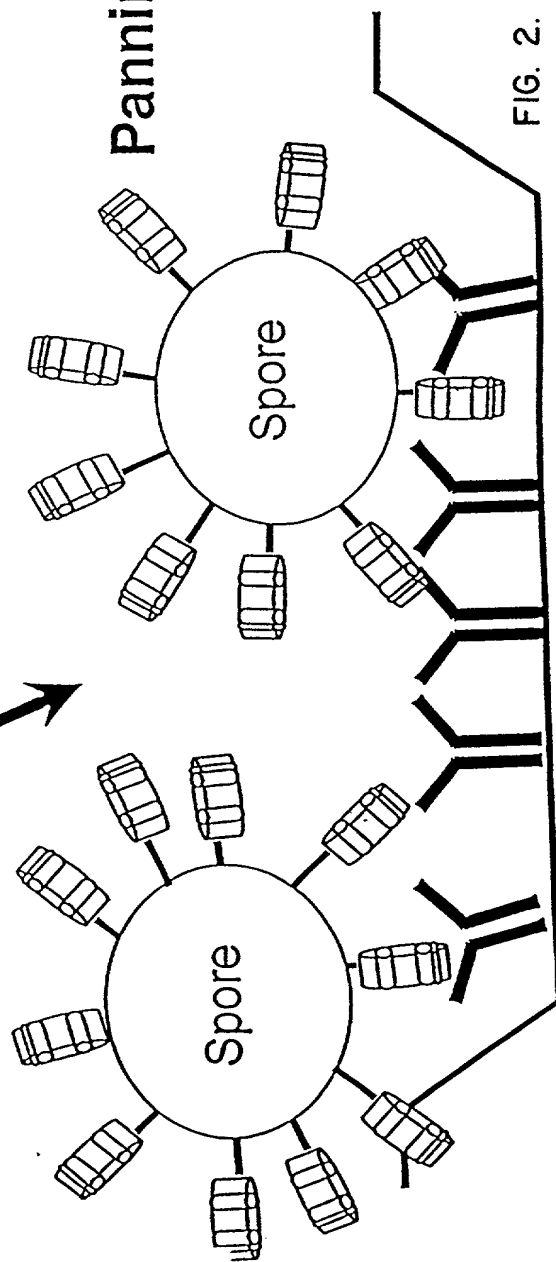
Spore Aerosol Vaccine Library



Combine display strains
and vaccine libraries

Improved vaccine antigens

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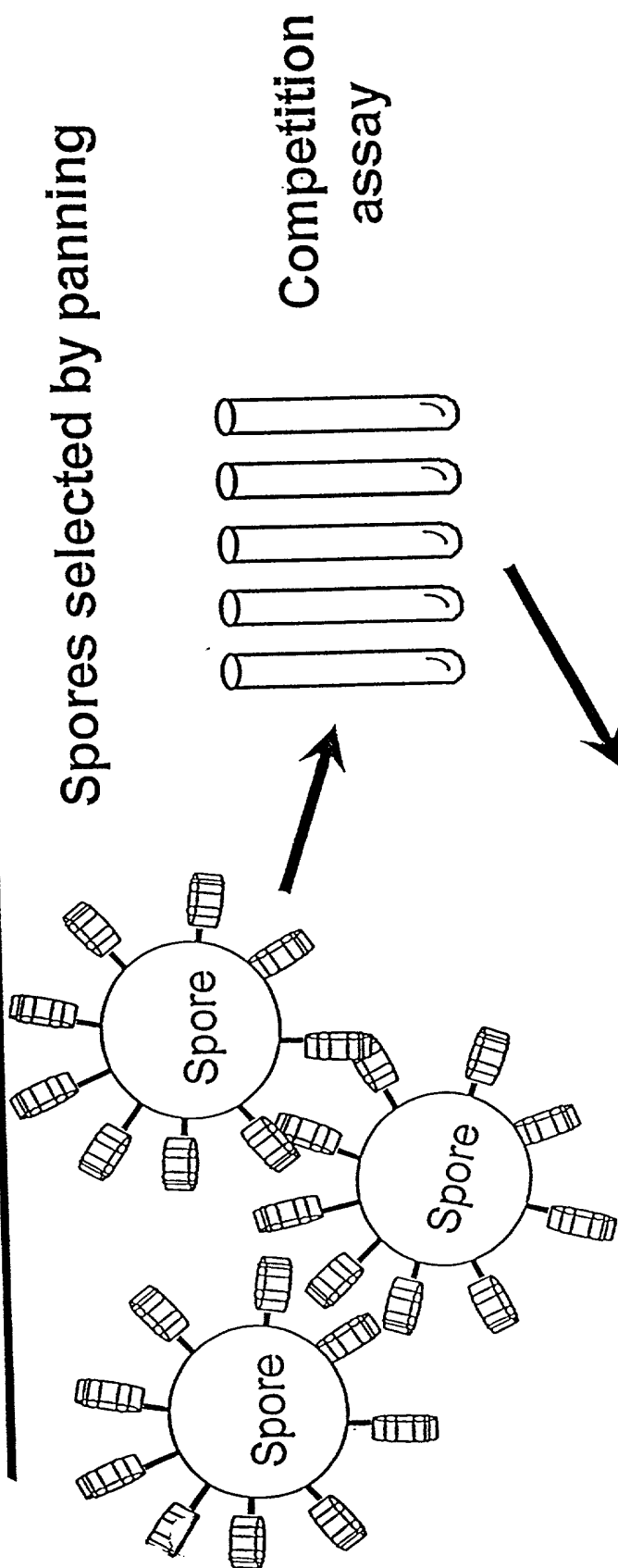


Panning assay for spore
display

FIG. 2.

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Spore Aerosol Vaccine Library



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FIG. 3.

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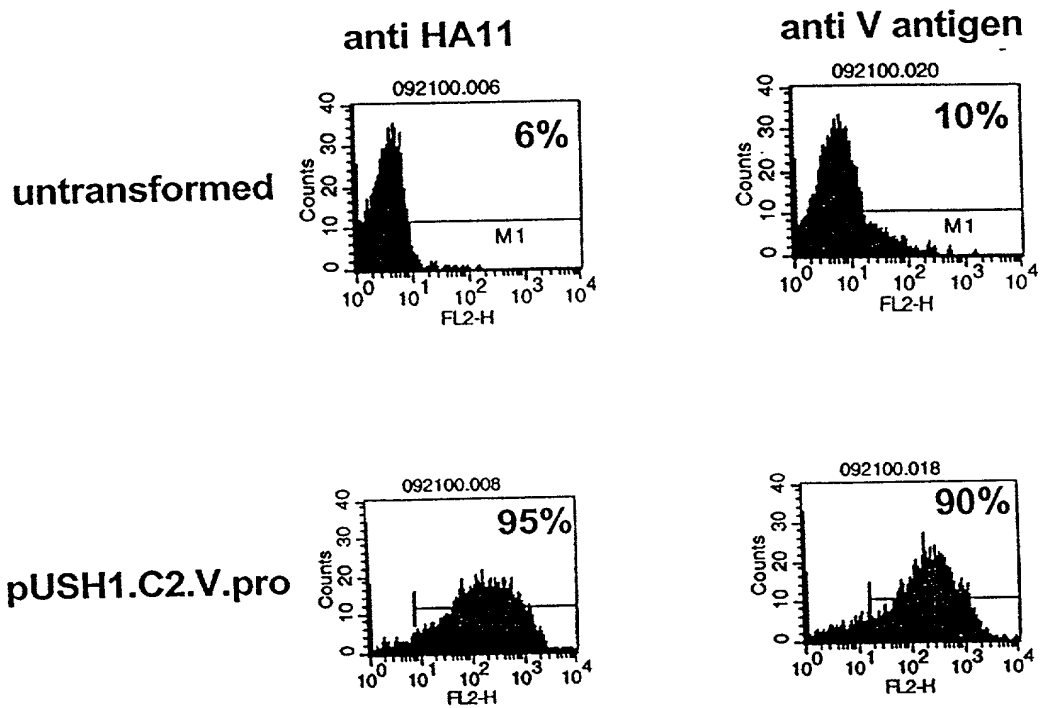


FIGURE 4

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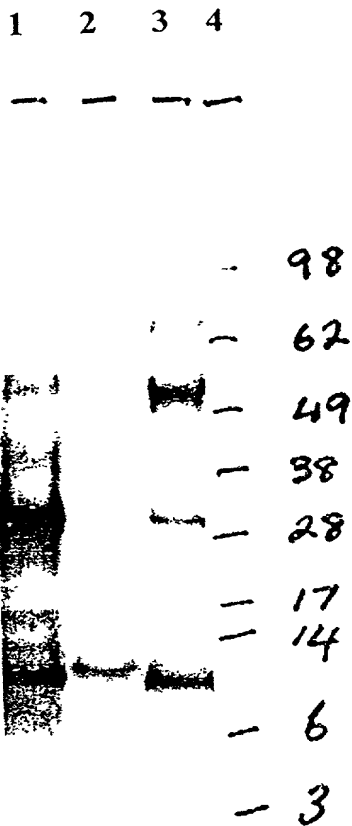
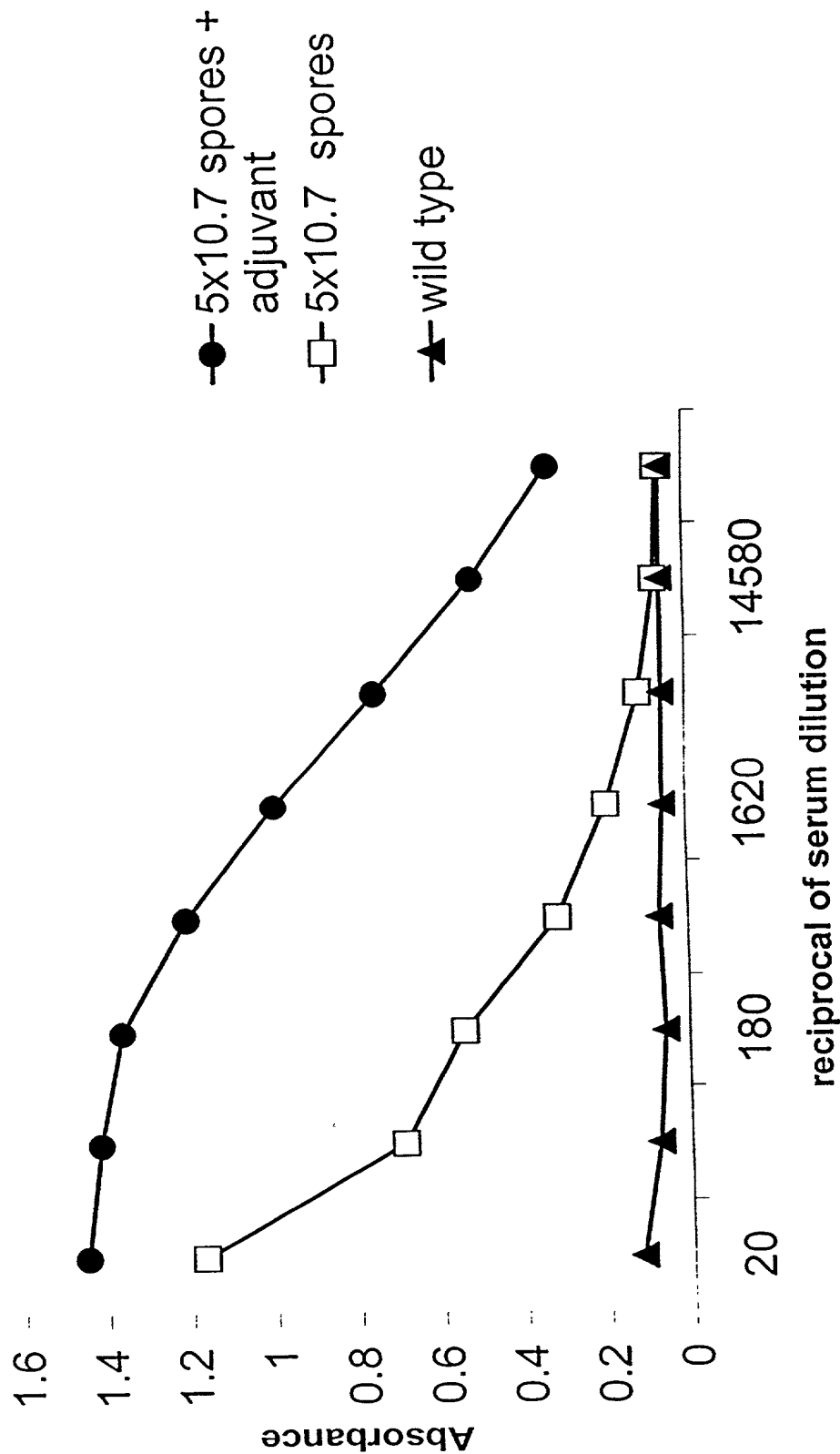


FIG. 5.

Fig 6 BALB/c response to recombinant V antigen displayed on spores



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Fig 7 Adjuvant effect of spores on immune response to V antigen in BALB/c mice (n=10)



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Lipase Activity of Spore-Displayed Lipase

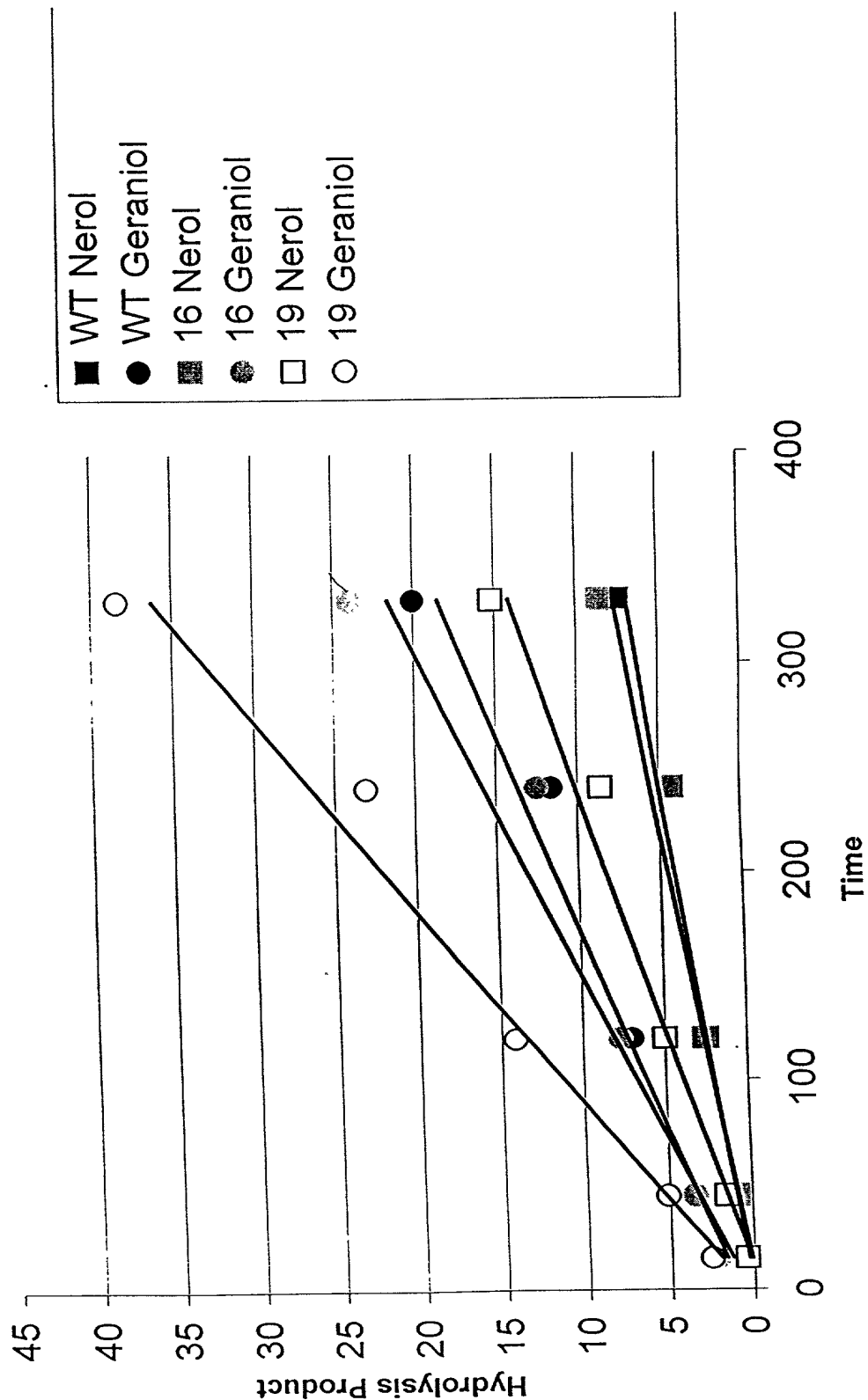


FIG. 8.

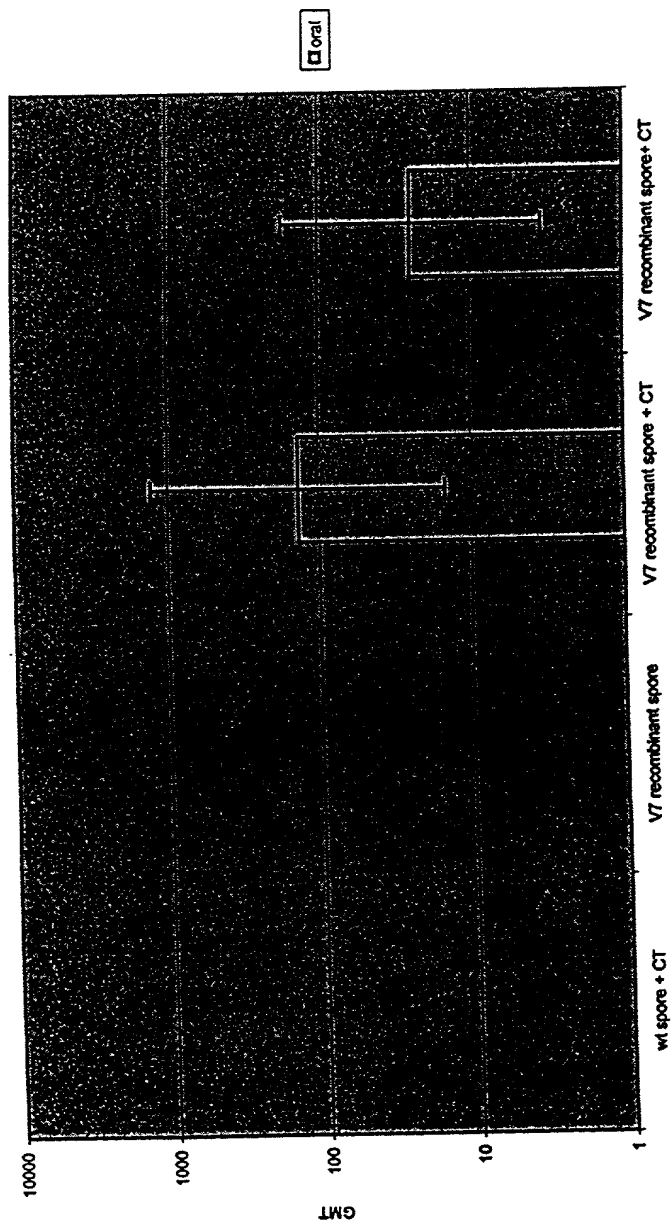


FIG. 9.

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Serum anti-V antigen titers following nasal immunization with recombinant spores

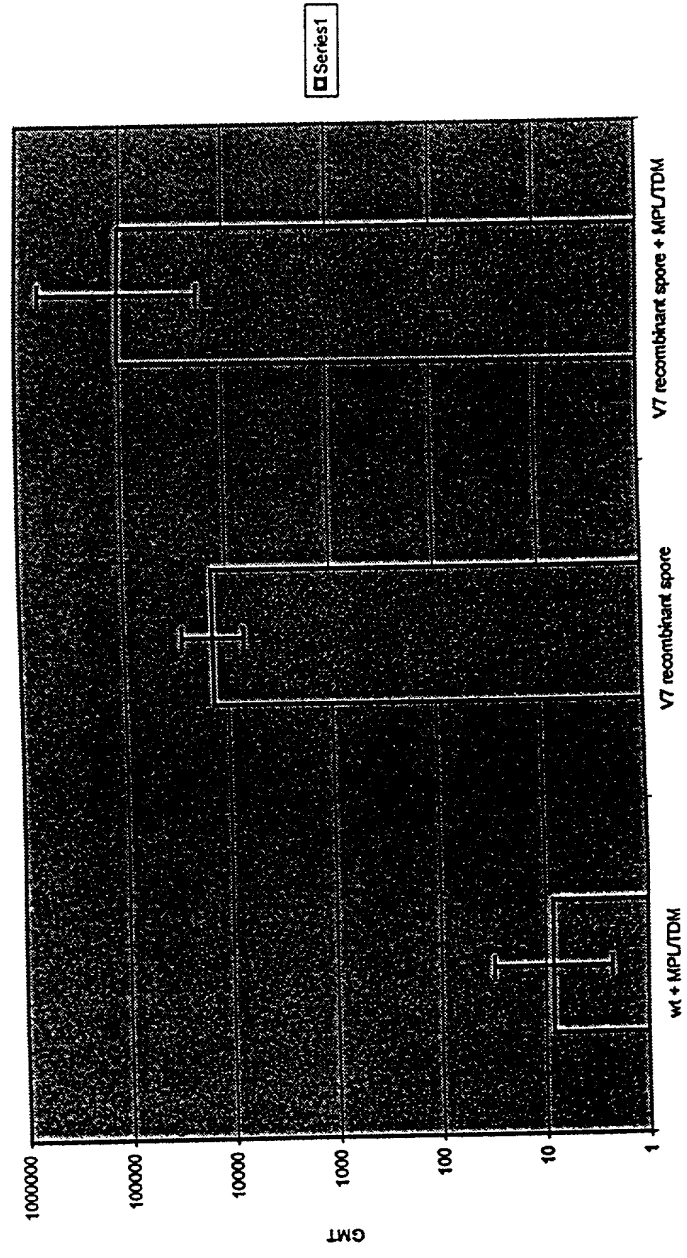


FIG. 10.

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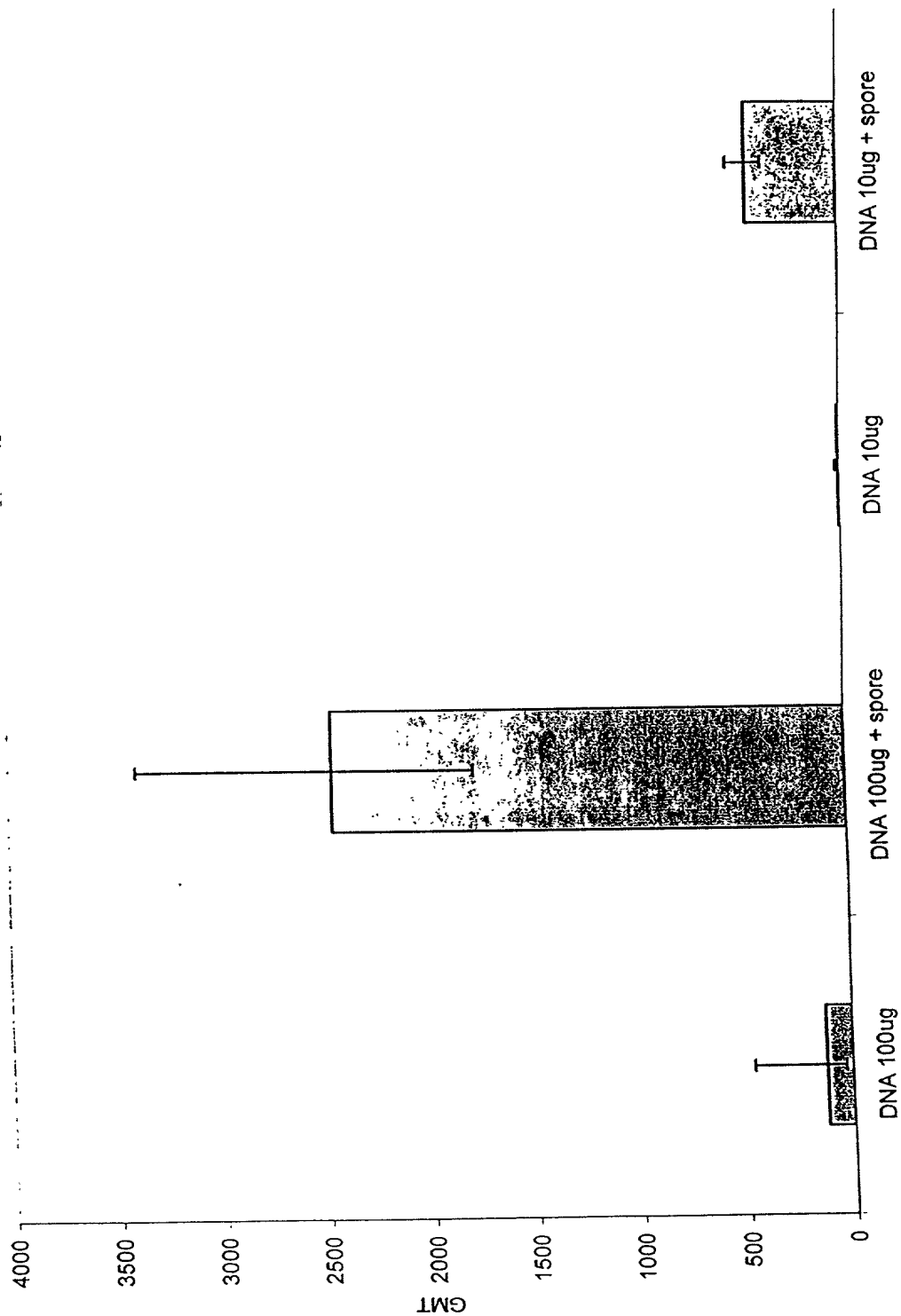
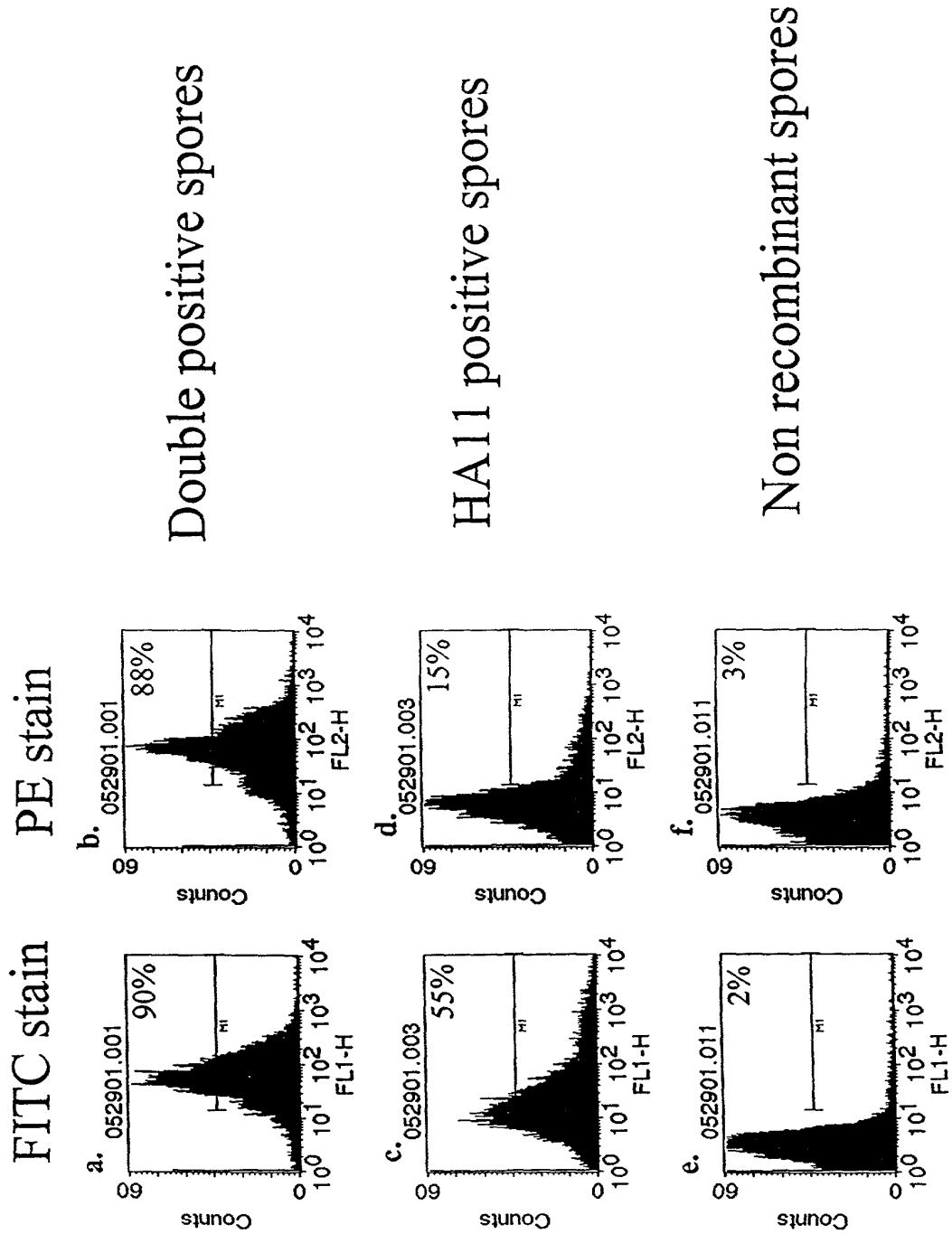


FIGURE 11

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Figure 12



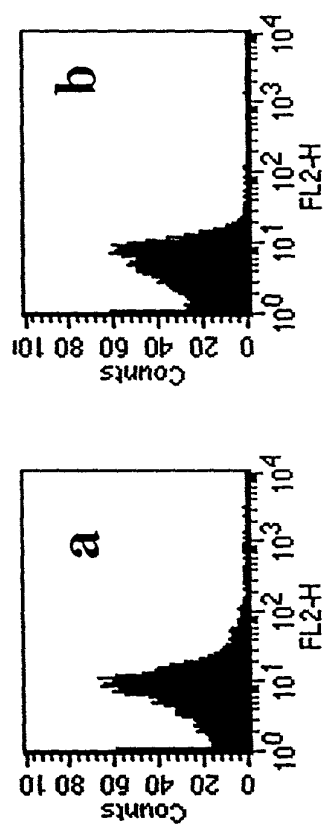
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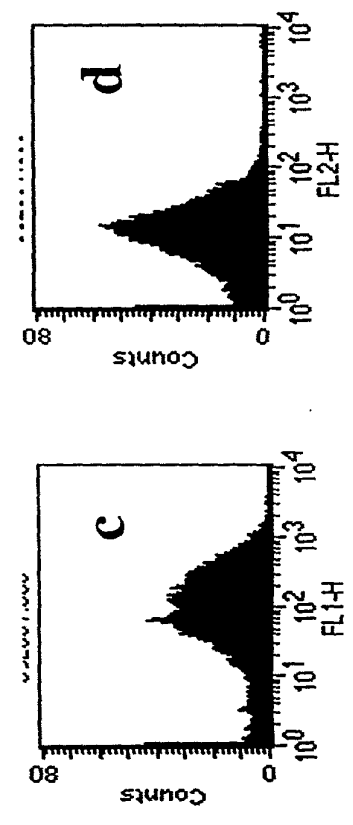
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Fig 13

anti HA anti c-myc



wildtype



double display

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Figure 14. Mice injected with V7 or V7-LT double display spores

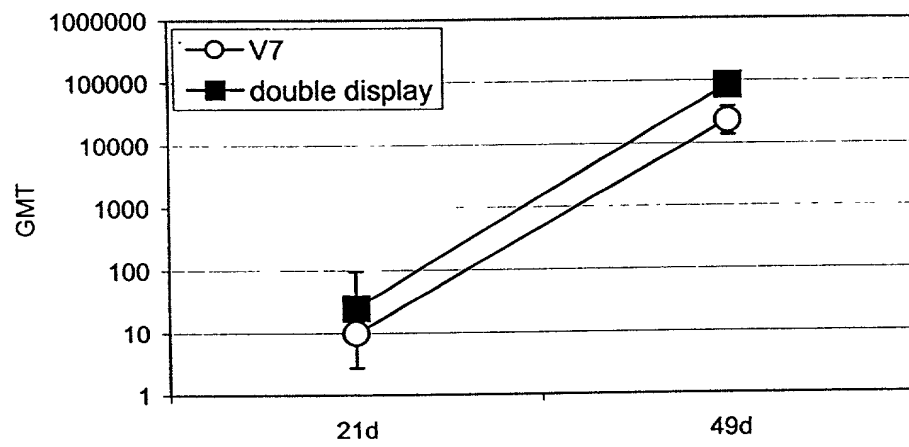


Figure 15. Responders to intranasal immunization

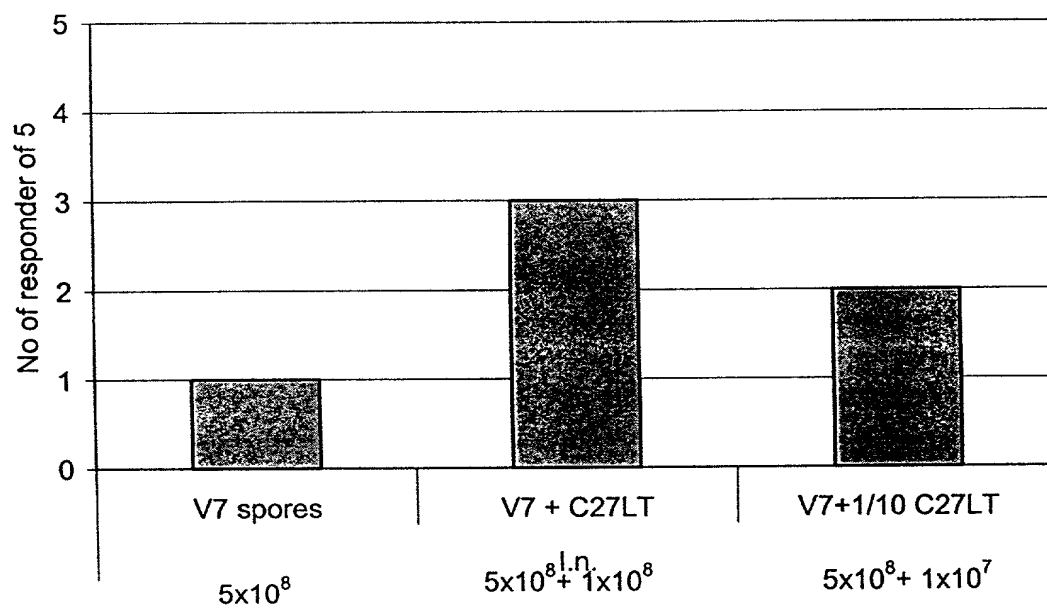


Figure 16. Serum anti V Ag titers in intranasally immunized mice

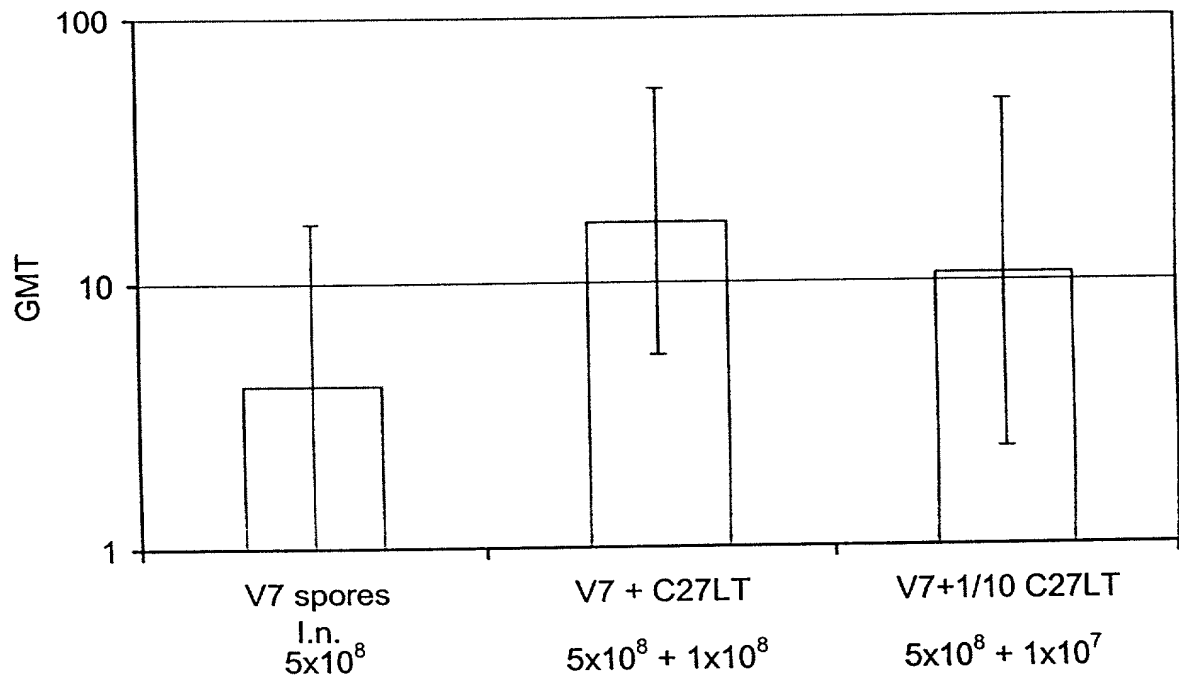


Figure 17

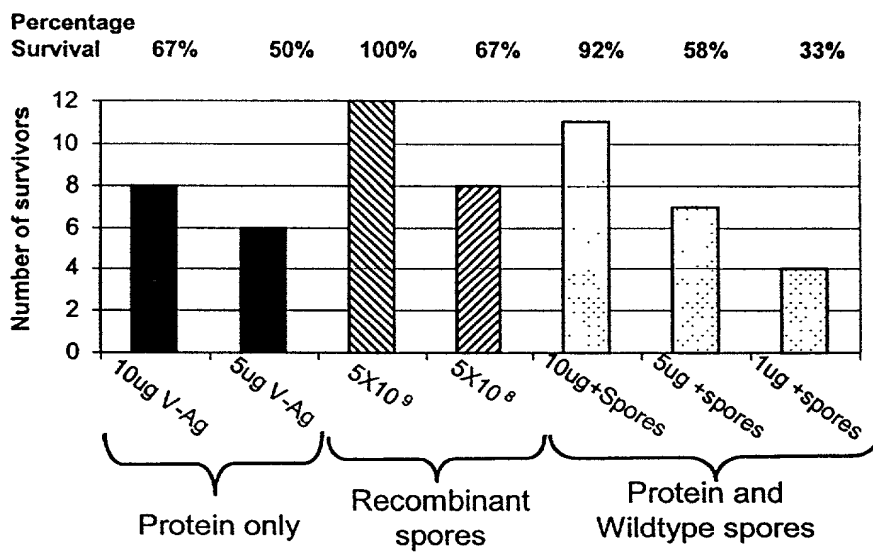


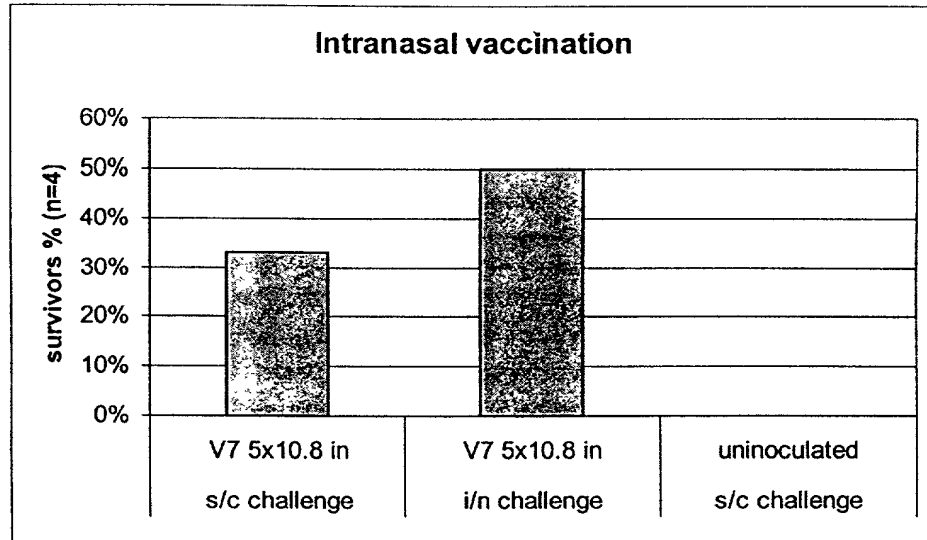
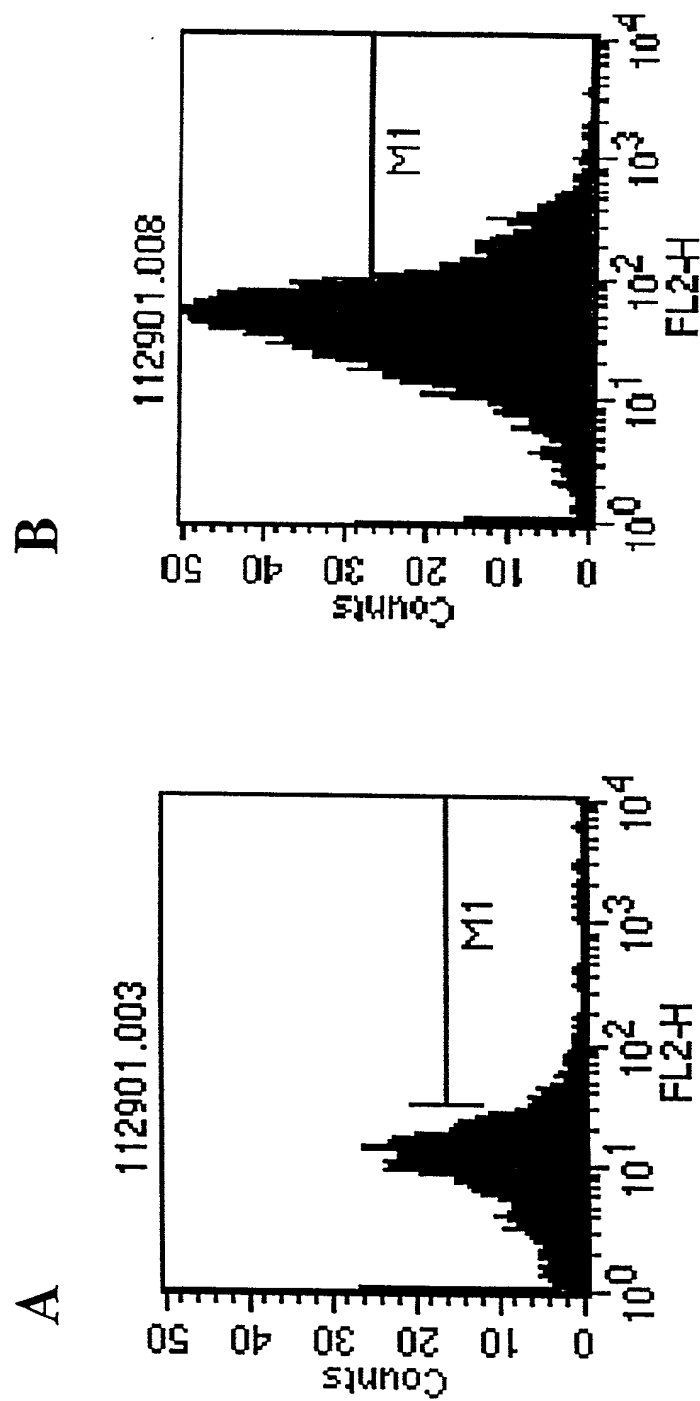
Figure 18

Fig 19



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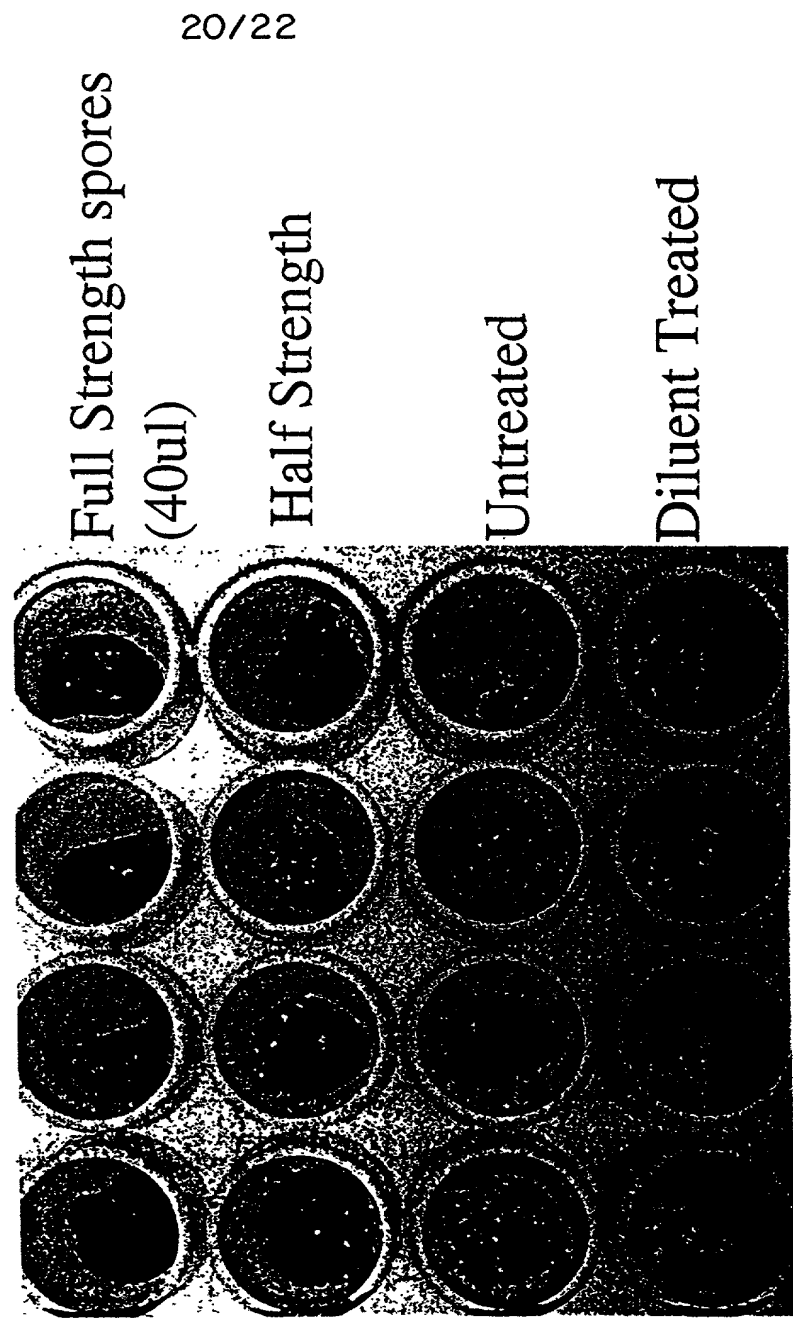
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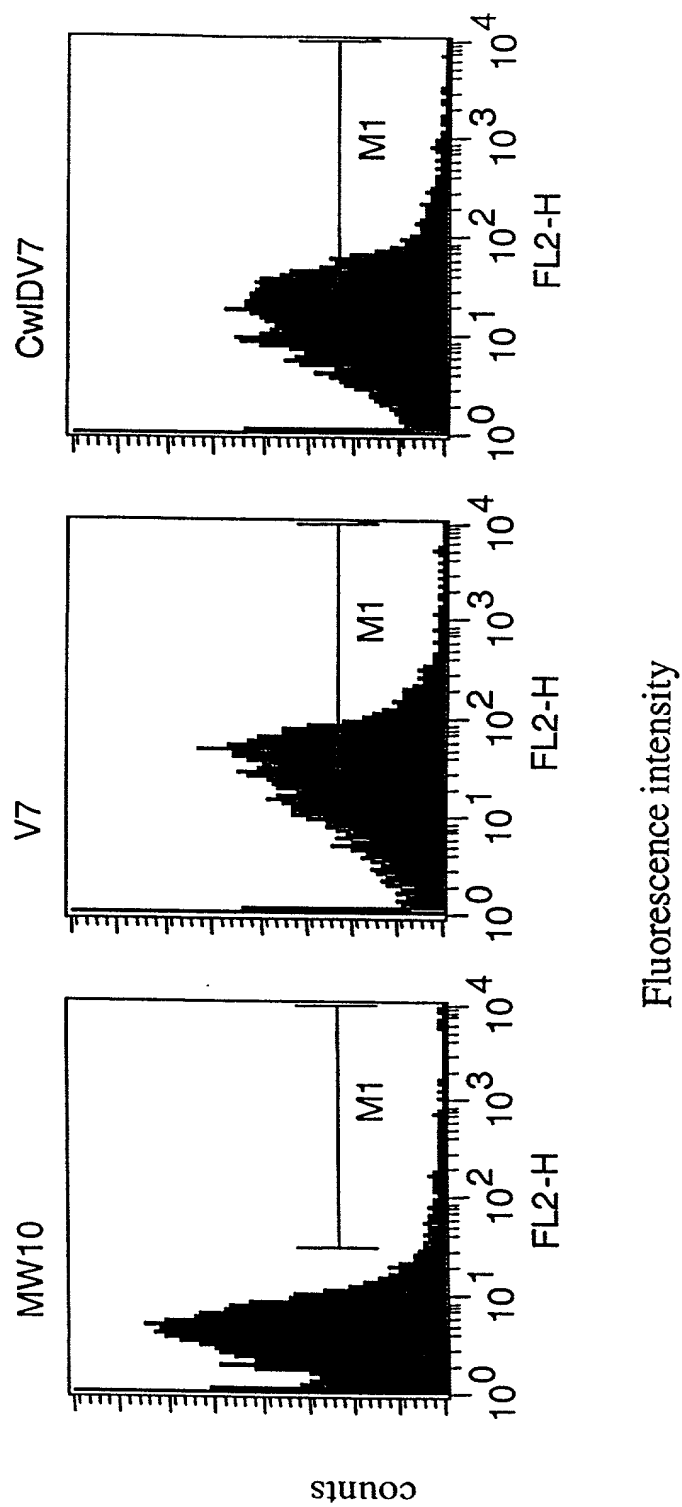
Fig 20

Effect of Cry1Ca Expressed on the Spores of *B. subtilis* on *Spodoptera exigua* neonates



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Fig 21



V-antigen Recombinant Spores in Mice

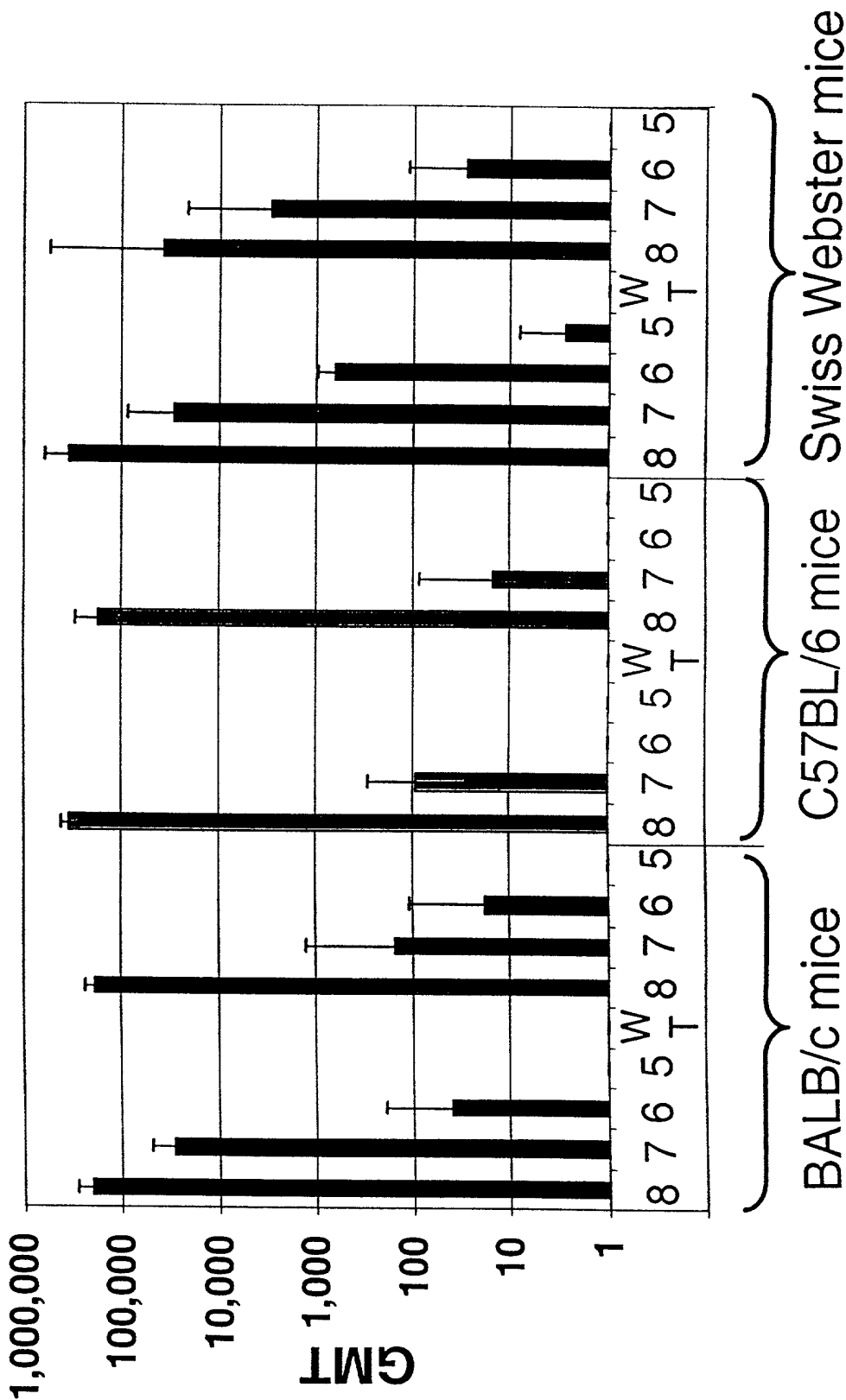


FIG. 22.